(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



1 MARA 1900 MARA DE COLOR BANGO MARANGAN DA MARANGAN BANGO MA

(43) International Publication Date 4 March 2004 (04.03.2004)

PCT

(10) International Publication Number WO 2004/018824 A3

- (51) International Patent Classification⁷: F16L 25/00
- E21B 23/00,
- (21) International Application Number:

PCT/US2003/025677

- (22) International Filing Date: 18 August 2003 (18.08.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/405,610

23 August 2002 (23.08.2002) U

- (71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A Park Row, Houston, TX 77084 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHUSTER, Mark [US/US]; 19115 Prospect Ridge Lane, Houston, TX 77094 (US). RING, Lev [RU/US]; 14126 Heatherhill Place, Houston, TX 77077 (US).

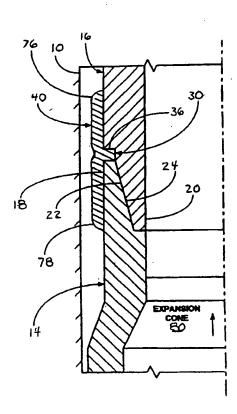
- (74) Agents: MATTINGLY, Todd et al.; Haynes and Boone, LLP, 901 Main Street, Suite 3100, Dallas, TX 75202 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CII, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, TT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: MAGNUTIC IMPULSE APPLIED SLEEVE METHOD OF FORMING A WELLBORE CASING



(57) Abstract: A method of forming a wellbore casing within a borehole (10) that traverses a subterranean formation includes the steps of assembling a tubular liner by coupling a threaded portion (24) of a first tubular member (16) to a threaded portion (22) of a second tubular member (14) and coupling a tubular sleeve (40) to the threaded portions (22,24) of the first (16) and second (14) tubular members. The method further includes positioning the wellbore casing within the borehole (10). The step of coupling the tubular sleeve (40) through the threaded portions (22,24) of the first (16) and second (14) tubular members includes applying impulsive magnetic energy to the tubular sleeve (40).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 29 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25677

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : E21B 23/00; F16L 25/00 US CL : 166/207,380; 285/333 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/207,380,206,313,381,242.6; 285/333,53; 403/179,273					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
	ta base consulted during the international search (nan ontinuation Sheet	ne of data b	ease and, where practicable,	search terms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate;	of the relevant passages	Relevant to claim No.	
A, P	US 2003/0067166 A1 (SIVLEY, IV) 10 April 2003 (10.04.2003), whole document.			1-4	
A	US 5,314,014 A (TUCKER) 24 May 1994 (24.05.1994), whole document.			1-4	
A	US 4,614,233 A (MENARD) 30 September 1986 (30.09.1986), whole document.			1-4	
A	US 3,520,049 A (LYSENKO et al) 14 July 1970 (14.07.1970), whole document.			1-4	
	r documents are listed in the continuation of Box C.		See patent family annex.		
Special extegories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing		"X"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L" document which may throw doubts on priority claims(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		·Y•			
"O" documen	nt referring to an oral disclosure, use, exhibition or other means	*&*	document member of the same pate	at family	
epe document published prior to the international filing date but later than the					
Date of the actual completion of the international search		Date of mailing of the international search report 21 MAY 2004			
12 December 2003 (12.12.2003)			ed Milicer CAL		
Name and mailing address of the ISA/US Mail Stop PCT, Atn.: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			. Baggill ne No. (703) 308-1113		

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT	PCT/US03/25677
	:
·	
Continuation of B. FIELDS SEARCHED Item 3: JPO, EPO, Derwent	
Terms: sleeve, tubular, expansion/expand, magnetic, impulse/impulsive	: .
	•
·	
	·
Form PCT/ISA/210 (second sheet) (July 1998)	